

## ABSTRACT

A device, a medium, and a method for recording and reproducing additional data difficult to analyze on an information recording medium are provided. When additional data is recorded onto the information recording medium, or additional data such for example as key information applied to a content decryption process, content reproduction control information, or copy control information is recorded on the information recording medium, the parity of a data-changeable data unit, for example user control data (UCD) is set to even parity or odd parity by controlling constituent bits of the user control data according to constituent bit information [0] or [1] of the additional data and according to whether the parity of a specific additional data-corresponding recording frame selected is even parity or odd parity. At a time of reproduction, the additional constituent bit information [0] or [1] is obtained by detecting the parity of the additional data-corresponding recording frame and the parity of the constituent data of the user control data (UCD).